

# Recombinant Equine Interleukin 5 (Colony-Stimulating Factor, Eosinophil)

**Cat. No.** IL5-257E    **Lot. No.** (See product label)

## SPECIFICATION

|                                        |                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>                | Recombinant Equine IL-5 was expressed in Yeast. MW= 12.9 kDa (114 aa).                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>                         | Equine                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>                          | Yeast                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>                     | Interleukin 5 (IL-5) plays an important role in B cell development by inducing the terminal differentiation of late-developing B cells. Additionally, IL-5 regulates the differentiation, survival and degranulation of eosinophils. IL-5 is expressed predominately by T-lymphocytes and mast cells, and to a lesser extent by eosinophils, natural killer cells and endothelial cells. |
| <b>Formulation/<br/>Reconstitution</b> | Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.                                                                                                                                                                                                                                                                               |
| <b>Purification</b>                    | Ion-exchange chromatography.                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>                          | >95% as visualized by SDS-PAGE analysis.                                                                                                                                                                                                                                                                                                                                                 |
| <b>Amino Acid<br/>Sequence</b>         | AVESPMNRLV AETLTLLSTH RTLLIGDGNL MIPTPEHKNH QLCIEEVFQG<br>IDTLKNQTVQ GDAVAKLFQN LSLIKGYIDL QKKKCGGERW RVKQFLDYLQ<br>EFLGVINTEW TIEG.                                                                                                                                                                                                                                                     |
| <b>Bioactivity</b>                     | In testing.                                                                                                                                                                                                                                                                                                                                                                              |

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**Stability And Storage**

Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

**GENE INFORMATION**

|                            |                                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | IL5 interleukin 5 (colony-stimulating factor, eosinophil) [ <i>Equus caballus</i> ]                                                                                                                                                                                       |
| <b>Synonyms</b>            | interleukin 5 (colony-stimulating factor, eosinophil); IL5; IL-5; interleukin 5; TRF; T-cell replacing factor; interleukin-5; eosinophil differentiation factor                                                                                                           |
| <b>Gene ID</b>             | 100034199                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_001082499.1                                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>      | NP_001075968.1                                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>          | O02699                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 14                                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | Allograft rejection; Asthma; Autoimmune thyroid disease; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Hematopoietic cell lineage; Intestinal immune network for IgA production; Jak-STAT signaling pathway; T cell receptor signaling pathway |

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